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DATE: 11/20/2001 RAW SEQUENCE LISTING TIME: 19:11:34 PATENT APPLICATION: US/09/836,470

Input Set : A:\836470.txt

Output Set: N:\CRF3\11202001\1836470.raw

## SEQUENCE LISTING

ENTERED

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3 (1) GENERAL INFORMATION:
            (i) APPLICANT: Witte, Owen N.
     5
                            Weng, Zhigang
           (ii) TITLE OF INVENTION: IDENTIFICATION OF A G PROTEIN-COUPLED
     6
                                     RECEPTOR TRANSCRIPTIONALLY REGULATED BY PROTEIN
     8
                                     TYROSINE KINASE SIGNALING IN HEMATOPOIETIC CELLS
     9
    10
           (iii) NUMBER OF SEQUENCES: 40
    12
            (iv) CORRESPONDENCE ADDRESS:
    14
                  (A) ADDRESSEE: Knobbe, Martens, Olson & Bear
    15
                  (B) STREET: 620 Newport Center Drive, 16th Floor
    16
                  (C) CITY: Newport Beach
    17
                  (D) STATE: CA
    18
                  (E) COUNTRY: U.S.A.
    19
                  (F) ZIP: 92660
    20
             (V) COMPUTER READABLE FORM:
    22
                  (A) MEDIUM TYPE: Diskette
     23
                  (B) COMPUTER: IBM Compatible
     24
                  (C) OPERATING SYSTEM: DOS
     25
                  (D) SOFTWARE: FastSEQ for Windows Version 2.0
     26
            (vi) CURRENT APPLICATION DATA:
     28
                  (A) APPLICATION NUMBER: US/09/836,470
C--> 29
                  (B) FILING DATE: 18-Apr-2001
C--> 30
                   (C) CLASSIFICATION:
     31
           (vii) PRIOR APPLICATION DATA:
     33
                  (A) APPLICATION NUMBER: US/08/969,815
     34
                   (B) FILING DATE:
     35
          (Viii) ATTORNEY/AGENT INFORMATION:
     37
                   (A) NAME: Bartfeld, Neil S
     38
                   (B) REGISTRATION NUMBER: 39,901
     39
                   (C) REFERENCE/DOCKET NUMBER: UCLA015.001A
     40
             (ix) TELECOMMUNICATION INFORMATION:
     42
                   (A) TELEPHONE: 619-235-8550
     43
                   (B) TELEFAX: 619-235-0176
     44
                   (C) TELEX:
     45
     48 (2) INFORMATION FOR SEQ ID NO: 1:
              (i) SEQUENCE CHARACTERISTICS:
     50
                   (A) LENGTH: 1507 base pairs
     51
                   (B) TYPE: nucleic acid
     52
                   (C) STRANDEDNESS: single
     53
                   (D) TOPOLOGY: linear
     54
             (ii) MOLECULE TYPE: cDNA
     56
             (ix) FEATURE:
     57
                   (A) NAME/KEY: Coding Sequence
     59
                   (B) LOCATION: 147...1292
      60
                   (D) OTHER INFORMATION:
      61
             (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
```

63





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| <i>c</i> = | AAACCTCCCA GCTGGGCCTG CAGAGGGGTG CTCAGCCCTG CCTCAGGACG GGCCTGCCCT  | 60   |
|------------|--|------|
| 65<br>66   | THE TRACE ACCOUNT CONCECCT TO THE TRACE TO T | 120  |
| 67         | TOTAL TOTAL MONCHON CONTROLL ACCUACT ATG AGA TOA GAA COT ACCUACT GOT   | 173  |
| 68         | Met Arg Ser Giu Plo IIII ASH Mid Mad   | •    |
| 69         | 1 CAC ACC ACC TCA GTA  | 221  |
| 71         | GGA AAC ACC ACA CTG GGG GTT ACC TCC GTT CTT CAG AGC ACC TCA GTA  |      |
| 72         | GGA AAC ACC ACA CTG GGG GTT ACC TOS STILL GIN Ser Thr Ser Val Gly Asn Thr Thr Leu Gly Val Thr Ser Val Leu Gln Ser Thr Ser Val 20 25  |      |
| 73         | 10 15 20 CCT TCT TCT GAG ACC TGC CAC GTC TCC TAC GAG GAG AGC AGA GTG GTC CCT TCT TCT GAG ACC TGC CAC GTC TCC TAC GAG GAG AGC AGA GTG GTC CCT TCT TCT GAG ACC TGC CAC GTC TCC TAC GAG GAG AGC AGA GTG GTC CCT TCT TCT GAG ACC AGA GTG GTC CCT TCT TCT GAG ACC AGA GTG GTC GTC TCC TAC GAG GAG AGC AGA GTG GTC CCT TCT TCT GAG ACC AGA GTG GTC GTC TCC TAC GAG GAG AGC AGA GTG GTC CCT TCT TCT GAG ACC AGA GTG GTC GTC TCC TCC TAC GAG GAG AGC AGA GTG GTC CCT TCT TCT TCT GAG ACC AGA GTG GTC GTC TCC TCC TAC GAG GAG AGC AGA GTG GTC CCT TCT TCT TCT GAG ACC AGA GTG GTC TCC TAC GAG GAG AGC AGA GTG GTC TCC TCC TAC GAG GAG AGC AGA GTG GTC TCC TCC TCC TCC TAC GAG GAG AGC AGA GTG GTC TCC TCC TCC TCC TCC TCC TCC TCC   | 269  |
| 75         | Pro Ser Ser Glu Thr Cys His Val Ser Tyr Glu Glu Ser Arg Val Val  |      |
| 76         | 30 33  |      |
| 77<br>79   | THE STEE CITY CALL THE CALL GET GET THE CTY GET  | 317  |
| 80         | Tou Val Val Val Tyr Ser Ala Val Cys Leu Leu Gly Leu Flo Ala Man  |      |
| 81         | 45 50  | 365  |
| 83         | TGC CTG ACT GCC TGG CTG ACG CTG CTG CAA GTC CTG CAG AGG AAC GTG  | 303  |
| 84         | Cys Leu Thr Ala Trp Leu Thr Leu Leu Gin vai Leu Gin Aig Non vai  |      |
| 85         | 65 /V  | 413  |
| 87         | CTA GCC GTC TAC CTG TTC TGC CTG TCC CTC TGT GAG CTG CTC TAC ATC Leu Ala Val Tyr Leu Phe Cys Leu Ser Leu Cys Glu Leu Leu Tyr Ile  |      |
| 88         |  |      |
| 89         | AGG COG CON THE TEG ATE ATE TAC ATE CAG AAT CAG CAE AAA TGG  | 461  |
| 91         | Con mbr Val Pro Leu Tro Ile Ile Tyr Ile Gin Asi Gin his Lys Ile  |      |
| 92<br>93   | 05 100   | 500  |
| 95         | THE STREET CONTROL OF THE  | 509  |
| 96         | Asn Leu Gly Pro Gln Ala Cys Lys Val Thr Ala Tyl Tie The The  |      |
| 97         | 110 110  | 557  |
| 99         | AAC ATC TAC ATC AGC ATC CTC TTG CTC TGC TGC ATT TCC TGC GAC CGC  | 50,  |
| 100        | . 130 . 133  |      |
| 10         | 1 125 CAL CHE CAL ACC CGA GGC CAC CGC CAC CAG  | 605  |
| 10         | The state of the service of the serv |      |
| 10         | _ 140 145 150  |      |
| 10         | O TOTAL CHE ACC ATT TOT GCG TGT GTG ATT CTT GTT GGA CTT  | 653  |
| 10<br>10   |  |      |
| 10         | 160 100  | 701  |
| 11         | THE TAR WAR GOA COO THE GAC ATG AAG GTG GAG AAG AGT TTO TGC III  | 701  |
| 11         | 2 Val Asn Tyr Pro Val Phe Asp Met Lys Val Giu Lys Sel File Cys 105   |      |
| 11         | 175  | 749  |
| 11         | 5 GAG CCC CTG AGG ATG AAC AGC AAG ATA GCC GGC TAC CAC TAC CTG CGT 6 Glu Pro Leu Arg Met Asn Ser Lys Ile Ala Gly Tyr His Tyr Leu Arg  |      |
| 11         | 100  |      |
| 11         | ./ CONTROL OF THE CONTROL OF ATC COT CTC GGC ATC CTG GCG TTC ACC AAT   | 797  |
| 11         |  |      |
| 12         | 210  | 6.45 |
| 12<br>12   | THE GREEN THE THE CCC ACC ATC AAA CTC AGT GAC AGC CTG AGC GCT GCG  | 845  |
| 12         | of the Claute Phe Arg Ser Ile Lys Leu Ser Asp Ser Leu Ser Ald Mid  | ,    |
| 12         | 225  | 893  |
| 12         | AND AND AND COURT AND COOK THE GOOD ATO GOOD GIVE ALC ALC INC.   | 0,5  |
| 12         |  |      |



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|            |               |                |              | 240      |          |         | 245           |                     |         |
|------------|---------------|----------------|--------------|----------|----------|---------|---------------|---------------------|---------|
| 129        | 235           | maa mmn        |              | 240      | אכ כיייכ | ርጥአ ርጥ  |               | C AAA GCT GCC       | 941     |
| 131        | CTG GTC       | TGC TTT        | GCT CCC      | THE CA   | ic Val   | Val Lei | ı Len Va      | l Lys Ala Ala       | _       |
| 132        |               | Cys Phe        | 255          |          | 15 Vai   | 26      | n dea va      | 265                 |         |
| 133        | 250           | m.c.c. mm/     |              |          | አሮ አሞር   |         |               | r GCC TTT GAA       | . 989   |
| 135        | AGC TTT       | TCC TTC        | TAC CAA      | Clu A    | ac Mat   | Acn Al  | a Val Cv      | s Ala Phe Glu       |         |
| 136        | Ser Phe       | Ser Phe        | 270          | GIY A    | ър мес   | 275     | u vai cy      | 280                 |         |
| 137        | 100 101       | OMC M30        |              | ייר איי  | ጥሬ ርጥሬ   |         | G TGC CT      | G TCT ACA GTC       | 1037    |
| 139        | AGC AGA       | CIG IAC        | . ACA GIC    | Sor Ma   | et Val   | Phe Le  | u Cvs Le      | u Ser Thr Val       |         |
| 140        | Ser Arg       | ьец тул<br>285 |              | Del m    | 290      | The Le  | u 0,0 20      | 295                 |         |
| 141        | አአር እርጥ       |                |              | מייר מיי |          | GTG CT  | G GGT AC      | A GAC CAC TCT       | 1085    |
| 143        | AAC AGI       | Val Al:        | Agn Dro      | Tle T    | le Tvr   | Val Le  | u Glv Th      | r Asp His Ser       |         |
| 144<br>145 | ASII SEL      | 300            | ASP FIC      |          | 05       | ,41 20  | 31            |                     |         |
| 147        | CCC CAA       |                | TCC AGA      |          |          | GGG TG  |               | G TGG TCC ACA       | 1133    |
| 147        | Arg Cln       | Clu Va         | Ser Arc      | Tle H    | is Thr   | Glv Tr  | p Lvs Lv      | s Trp Ser Thr       |         |
| 148        | 315           |                | Der Arg      | 320      | 10 1111  | 011 11  | 325           | [                   |         |
| 151        | 37C 3C3       | ጥልጥ ርጥ         | ר מכמ דככ    |          | AG GAC   | TCT GA  | G GAG AC      | A CAC TTG CCC       | 1181    |
| 152        | Two Thr       | Tur Va         | Thr Cvs      | Ser L    | vs Asp   | Ser Gl  | u Glu Th      | r His Leu Pro       |         |
| 153        | 330           | iyi va.        | 335          |          | 10       | 34      | 0             | 345                 |         |
| 155        | ACA GAG       | ርሞም ጥር         |              |          | CC TTC   | CCC AA  | T CCC GC      | G CAC CCT CCA       | 1229    |
| 156        | Thr Glu       | Len Se         | r Asn Thr    | Tvr T    | hr Phe   | Pro As  | n Pro Al      | a His Pro Pro       |         |
| 157        | III GIG       | Lou Do.        | 350          | -1-      |          | 355     |               | 360                 |         |
| 159        | GGA TCA       | CAG CC         |              | CTA G    | GT TTA   | CTG TG  | C TCG CC      | A GAG AGA CTG       | 1277    |
| 160        | Glv Ser       | Gln Pro        | o Ala Lvs    | Leu G    | ly Leu   | Leu Cy  | s Ser Pr      | o Glu Arg Leu       |         |
| 161        | 017 001       | 36             |              |          | 370      |         |               | 375                 |         |
| 163        | CCT GAG       |                |              | GAGACG   | A TTGT   | CCACTC  | TTCCTCAA      | AA CTAGCACCAG       | T 1333  |
| 164        |               | Glu Le         |              |          |          |         |               |                     |         |
| 165        |               | 380            |              |          |          |         |               |                     |         |
| 167        | CACACAT       | ACC TGG        | TCCTCTG F    | GTCACC   | GTC TG   | GGGTGTC | C ACAGCA      | CTAT AGATGCCT       | TT 1393 |
| 168        | GTTCGGG       | CAC ACG        | CTGCTGA T    | CTTTCC   | TTC CT   | AAGGCCA | C CAACTO      | TGAA AGTATCTG       | TT 1453 |
| 169        |               |                |              |          |          | AAGCGGG | G CTTGCT      | AAGG GACC           | 1507    |
| 171        |               |                | FOR SEQ      |          |          |         |               |                     |         |
| 173        | (i)           |                | CE CHARAC    |          |          |         |               |                     |         |
| 174        |               |                | ENGTH: 38    |          |          | S       |               |                     |         |
| 175        |               |                | YPE: amin    |          |          |         |               |                     |         |
| 176        |               |                | TRANDEDNI    |          |          |         |               |                     |         |
| 177        |               |                | OPOLOGY:     |          |          |         | •             |                     |         |
| 179        |               |                | LE TYPE:     |          |          |         |               |                     |         |
| 180        | (V)           | FRAGME         | NT TYPE:     | intern   | ano Ti   | D MO. 2 |               |                     |         |
| 182        | (X1)          | SEQUEN         | CE DESCR     | PTION:   | SEQ II   | Clar No | ։<br>ո ՄԽԻ ՄԻ | r Lou Gly Val       |         |
| 184        |               | ser GI         |              | ASII A   | на нта   | 10      | 11 1111 11.   | r Leu Gly Val<br>15 | •       |
| 185        | 1             | . 17_1 T_      | 5<br>Gla Gar | o mbro c | or Val   |         | r Ser Gl      | u Thr Cys His       | i.      |
| 186        | rnr ser       | : vai Le<br>20 |              | . 1111 5 | 25       | 110 56  |               | 30                  |         |
| 187        | Wal Com       | ∠U<br>. m с1   | n Glu Son    | · Ara W  |          | Len Va  | 1 Val Va      | l Tyr Ser Ala       | l       |
| 188        | val Ser       | TYP GI<br>35   | a Gra Se     |          | .0       | Dog va  | 45            |                     |         |
| 189        | Val Crro      |                | n Glv Lei    |          |          | Cvs Le  |               | a Trp Leu Thr       | •       |
| 190<br>191 | var cys<br>50 | nea ne         | и ота пе     | 55       |          | 0,0 10  | 60            | <u>-</u>            |         |
| 191        | JU<br>Lau Lau | Gln Va         | l Len Gli    |          | sn Val   | Leu Al  |               | r Leu Phe Cys       | 3       |
| 174        | חפת הפת       | . GIII Va      | L LCG OI     | 9 23     |          |         | 1             |                     |         |



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|            |           |              |            |           |              |             |            |              |            |             | 7.5      |       |       |        |       | 80   |
|------------|-----------|--------------|------------|-----------|--------------|-------------|------------|--------------|------------|-------------|----------|-------|-------|--------|-------|------|
| 193        | 65        |              |            |           | _            | 70          | _          | _            | -1.        |             | 75       | 17-1  | Dwo   | Tou    | Пrn   |      |
| 194        | Leu       | Ser          | Leu        | Cys       |              | Leu         | Leu        | Tyr          | тте        |             | THE      | vaı   | PIO   | Leu    | 95    | 116  |
| 195        |           |              | _          |           | 85           | -1          | ·-         | T            | M          | 90          | T 011    | C1 11 | Dro   | Cln    | _     | Cve  |
| 196        | Ile       | Tyr          | Ile        |           | Asn          | Gln         | HIS        | ьуs          |            | ASII        | Leu      | GTA   | PIO   | 110    | Ala   | Cys  |
| 197        |           |              |            | 100       | _            |             | -1         | n1 .         | 105        | 3           | т1.      | Merro | Tlo   |        | Tlo   | Lou  |
| 198        | Lys       | Val          |            | Ala       | Tyr          | Ile         | Phe        |              | Cys        | Asn         | TTE      | TAL   | 116   | ser    | TTG   | пеа  |
| 199        |           |              | 115        |           | _            | _           | _          | 120          |            | m           | 14 a.t.  | 7 J n | 125   | v. 1   | Фтт   | λla  |
| 200        | Leu       |              | Cys        | Cys       | IIe          | Ser         |            | Asp          | Arg        | TAT         | мес      | 140   | Val   | Val    | тут   | AIU  |
| 201        |           | 130          |            |           | _            |             | 135        | •            |            | •           | m1       |       | 170 1 | mh ~   | т1 о  | Sor  |
| 202        | Leu       | Glu          | Ser        | Arg       | Gly          | His         | Arg        | HIS          | GIn        | Arg         | 1111     | Ата   | vaı   | 1111   | TIE   | 160  |
| 203        | 145       |              |            |           |              | 150         |            | ~ 3          | -          | 77 - 1      | 155      | m     | Dwo   | 1701   | Dho   |      |
| 204        | Ala       | Cys          | Val        | Ile       |              | Leu         | Val        | GTÀ          | Leu        | val         | ASI      | TAL   | PIO   | Val    | 175   | Asp  |
| 205        |           |              |            |           | 165          |             |            |              | -1         | 170         | D        | T     | 7 200 | Wot    |       | Cor  |
| 206        | Met       | Lys          | Val        |           | Lys          | Ser         | Phe        | Cys          | Pne        | GIU         | Pro      | Leu   | Arg   | 100    | ASII  | ser  |
| 207        |           |              |            | 180       |              |             |            | _            | 185        | <b>51</b> . | m1       | Dh.a  | a1    | 190    | λl-   | т1о  |
| 208        | Lys       | Ile          |            | Gly       | Tyr          | His         | Tyr        |              | Arg        | Pne         | Thr      | Pne   | GIY   | Pile   | Ата   | TTE  |
| 209        |           |              | 195        |           |              |             |            | 200          | _          |             | a1 .     | T1 -  | 205   | 7      | Com   | т1 о |
| 210        | Pro       |              | Gly        | Ile       | Leu          | Ala         |            | Thr          | Asn        | HIS         | GIN      | 116   | Pne   | AIG    | ser   | 116  |
| 211        |           | 210          |            |           |              |             | 215        |              | - 1        | 1           | <b>.</b> | 220   | T     | 37.5.1 | T *** | 7 ~~ |
| 212        | Lys       | Leu          | Ser        | Asp       | Ser          | Leu         | Ser        | Ala          | Ala        | GIn         | Lys      | ASII  | ьуѕ   | Val    | гуѕ   | 240  |
| 213        | 225       |              |            |           | _            | 230         |            |              | -1         | <b>-</b>    | 235      | Q     | Dho   | 71.    | Dro   |      |
| 214        | Ser       | Ala          | Ile        | Ala       |              | Val         | Thr        | ITe          | Pne        | Leu         | vaı      | Cys   | Pne   | Ala    | 255   | тут  |
| 215        |           |              |            |           | 245          |             | _          |              |            | 250         | Dh.      | 0     | Dho   | Шттх   |       | C117 |
| 216        | His       | Val          | Val        |           | Leu          | Val         | Lys        | Ala          | Ala        | ser         | Pne      | ser   | Pile  | 270    | GIII  | GIY  |
| 217        |           |              |            | 260       |              | _           |            | Dl           | 265        | Com         | 7 200    | T OU  | Tree  |        | Va 1  | Sor  |
| 218        | Asp       | Met          |            | Ala       | Va⊥          | Cys         | Ата        |              | GIU        | ser         | AIG      | ьеu   | 285   | 1111   | VUI   | DCI  |
| 219        |           | _            | 275        | _         | _            |             |            | 280          | 170 l      | ħ an        | Cor      | Val   |       | λen    | Dro   | Tle  |
| 220        | Met       |              | Phe        | Leu       | Cys          | Leu         |            | THE          | Val        | ASII        | ser      | 300   | Ата   | дар    | 110   | 110  |
| 221        |           | 290          |            | _         | <b>a</b> 1   | m1          | 295        | 774 ~        | Com        | 7 ~~        | Cln      |       | Wa 1  | Sar    | Δτα   | Tle  |
| 222        |           | Tyr          | Val        | ьеu       | GIY          | Thr         | ASP        | HIS          | ser        | ALY         | 315      | Giu   | Vul   | DCI    | 1119  | 320  |
| 223        | 305       | _,           | <b>~</b> 1 | m         | T            | 310<br>Lys  | m ~~       | Cor          | Thr        | Lvc         |          | Туг   | Val   | Thr    | Cvs   |      |
| 224        | His       | Thr          | GTĀ        | Trp       |              | гуѕ         | ттр        | Ser          | 1111       | 330         | 1 111    | 111   | val   | 1111   | 335   | 501  |
| 225        | _         | _            |            | <b>01</b> | 325          | Thr         | II d       | LOU          | Dro        |             |          | T.011 | Ser   | Δsn    |       | Tvr  |
| 226        | Lys       | Asp          | ser        |           | GIU          | TIII        | птѕ        | ьeu          | 345        | TIIT        | Giu      | цси   | DCI   | 350    |       | -1-  |
| 227        | 1         | <b>51.</b> . | B          | 340       | Dwo          | * 1 a       | II i c     | Dro          |            | Glv         | Sar      | G1n   | Pro   |        | Lvs   | Leu  |
| 228        | Thr       | Pne          |            |           | PIO          | Ата         | птъ        | 360          | FIO        | Gry         | JCI      | 0111  | 365   |        | -10   |      |
| 229        | <b>a1</b> | <b>.</b>     | 355        | 0         | Con          | Pro         | Clu        |              | T.au       | Dro         | Glu      | Glu   |       |        |       |      |
| 230        | GTA       |              |            |           |              |             |            | му           | пец        | 110         | Olu      | 380   | ,     | 010    |       |      |
| 231        |           |              |            |           |              | CEO.        |            | <b>Λ</b> 3   |            |             |          | 500   |       |        |       |      |
|            | (2)       | TNEO         | RMAT       | TON       | rok<br>r cu  | SEQ<br>ARAC | TO N       | о. ј<br>Сттс | g .        |             |          |       |       |        |       |      |
| 235        |           | ( T )        | SEQ        | V LE      | ь сп<br>мети | : 29        | 38 P       | 360          | o.<br>nair | q           |          |       |       |        |       |      |
| 236        |           |              | (A         | ) mr      | рь.<br>Исти  | nucl        | oic<br>Dic | acid         | Pull       |             |          |       |       |        |       |      |
| 237        |           |              |            |           |              | EDNE        |            |              |            |             |          |       |       |        |       |      |
| 238        |           |              |            |           |              | GY:         |            |              |            |             |          |       |       |        |       |      |
| 239        |           | /445         |            |           |              | PE:         |            |              |            |             |          |       |       |        |       |      |
| 241        |           |              |            | TURE      |              | ru.         | 0 0116     | -            |            | •           |          |       |       |        |       |      |
| 242        |           | ( TX )       | r EA       | TOVE      | МЕ/К         | EY:         | Codi       | na S         | eane       | nce         |          |       |       |        |       |      |
| 244<br>245 |           |              |            |           |              | ON:         |            |              |            |             |          |       |       |        |       |      |
| 24 J       |           |              | ( D        | , 10      | U411 I       | J., .       | · · ·      | 0            |            |             |          |       |       |        |       |      |





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| 246        |   |               | (D)   | ОТН   | ER I  | NFOR  | ITAM  | ON:   |       |       |         |       |       |                |                |              |            |
|------------|---|---------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|----------------|----------------|--------------|------------|
| 248        | (   | xi)           | SEOU  | ENCE  | DES   | CRIF  | MOIT  | : SE  | Q ID  | NO:   | 3:      |       |       |                |                |              |            |
| 250        | (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 3: GGGAGGGGTG CNANGCTAGC CACGCAGGCG GGGCCCTGGG TCATTTTAAN CTCTCAGAGT                          |               |       |       |       |       |       |       |       |       |         |       |       | 60             |                |              |            |
| 251        | GAAC  | GTCT          | TG A  | TAGG  | ACCG  | A CA  | ANAC  | NCAT  | NAC   | NTGT  | ACT     | TAGA  | TAGC  | TT A           | TCTT           | ANANC        | 120        |
| 252        | GAACGTCTTG ATAGGACCGA CAANACNCAT NACNTGTACT TAGATAGCTT ATCTTANANC CACNCTGANA TTGGAACCCG CAAAATATGC CNGGGAGGAA GGTGAGCAAG GGACACGACA |               |       |       |       |       |       |       |       |       |         | 180   |       |                |                |              |            |
| 253        | CTCACCCGGA TAAACCCAAC AAGCGCAGCG AGGCTGTGGG GAAACCGGAN CCCTGCACAC   |               |       |       |       |       |       |       |       |       |         |       | 240   |                |                |              |            |
| 254        | CGCCGGGGA AGGTGGGCCN CCGCCACCAC CGTGGAAGAA CAGCGCGGAN GCACCCCACG  |               |       |       |       |       |       |       |       |       |         | CCACG | 300   |                |                |              |            |
| 255        | AGATGAGACG GAACTGCCGT GAGATCCAGC AATNCCNACT GTGGGTCTGA CCCAGGATAN   |               |       |       |       |       |       |       |       |       |         | GATAN | 360   |                |                |              |            |
| 256        | CGGAAAGCAG GGACGTGAAC AGCCCTCCTC ATGTTCTTGA CACCGTCATT CTCAGCAGCT   |               |       |       |       |       |       |       |       |       |         | CAGCT | 420   |                |                |              |            |
| 257        | CAGCTAAGGC ACAGAGGCAG CCGAGCGTCT GTCAGCAGAG TCGTGGCTGA GCAGAACACG   |               |       |       |       |       |       |       |       |       |         |       | ACACG | 480            |                |              |            |
| 258        | CCACACGCCA CACGCCACAC GCCACACGTG CAGGATTGCT CAAGATGGAA GGGCACAGTG   |               |       |       |       |       |       |       |       |       |         |       | CAGTG | 540            |                |              |            |
| 259        | GAATATATA ATATATTAT ATTTTTGGCG AGACCCTGGA GGACACACTG AATACAATGG   |               |       |       |       |       |       |       |       |       |         |       |       | 600            |                |              |            |
| 260        | AATACCATCC CGCCTTTGAA AGGAAGGGAA ATCCTGGCAC ACGCTGCAAC AGGAGGGAGC   |               |       |       |       |       |       |       |       |       |         |       | GGAGC | 660            |                |              |            |
| 261        | - $        -$   |               |       |       |       |       |       |       |       |       |         |       | 720   |                |                |              |            |
| 262        | CAGA  | GATO          | CC C  | CACCO | CACG  | G GC  | GAGG  | STGAC | AGG   | GGAG  | CCC     | AGCG  | CACE  | AGA (          | JACAA          | AGTGG        | 780<br>840 |
| 263        | AATG  | GAGG          | CC I  | GGGG  | GCT   | GG GI | AGCA  | ATGO  | GGF   | AGCGA | GTG     | CTTC  | CTGC  | iGG (          | CAGAG          | TCTCC        | 900        |
| 264        | GTTT  | 'GGG <i>F</i> | AAG A | TGAC  | GAAGO | ST TO | CTGC  | CGACG | GA'   | GCTG  | GCG     | ATGG  | TIGO  | CAG            | AAGAE          | TGTGA        | 948        |
| 265        | ATC   | TGC           | CCA   | ATC   | CTA   | A CTO | S AAA | AAA   | GGT   | ' TAC | AAT     | GGF   | AAC   | . GCC          | ACC<br>Tha     | CCA          | 340        |
| 266        |   | . Cys         | Pro   | ) Met |       | ı Lei | т г   | s Asr | ı GIŞ |       | ASI     | 1 GT  | ASI   | I ALC          | 15             | Pro          |            |
| 267        | 1   |               |       |       | 5     |       | maa   | 000   | maa   | 10    | ccc     | CTTC  | mcc   | CCC            |                | አ <i>C</i> C | 996        |
| 269        | GTG   | ACC           | ACC   | ACT   | GCC   | CCG   | TGG   | GCC   | TCC   | CTG   | Clar    | LOU   | Cor   | λla            | AAG            | Thr          | 770        |
| 270        | Val   | Thr           | Thr   |       | Ala   | Pro   | ттр   | Ата   | 25    | Leu   | GIY     | neu   | 261   | 30             | Lys            | 1111         |            |
| 271        |   |               |       | 20    | maa   | mma   | C 3 3 | CAC   | -     | A C C | א ידי א | CTC   | СТС   |                | GTG            | GTG          | 1044       |
| 273        | TGC   | AAC           | AAC   | GIG   | TCC   | Dho   | GAA   | Clu   | Cor   | AGG   | TIA     | Val   | T.AII | Val            | Val            | Val          |            |
| 274        | Cys   | Asn           |       | vaı   | ser   | Pne   | GIU   | 40    | 261   | ALG   | 116     | Val   | 45    | , u i          | , a i          | ,            |            |
| 275        | ma a  | 3.00          | 35    | CTC   | TCC   | N C C | СТС   |       | стс   | CCG   | GCC     | AAC   |       | CTG            | ACT            | GCG          | 1092       |
| 277        | TAC   | AGC           | A lá  | Ual   | Cvc   | Thr   | T.011 | G1v   | Val   | Pro   | Ala     | Asn   | Cvs   | Leu            | Thr            | Ala          |            |
| 278<br>279 | тут   | 50            | MIG   | Val   | Суз   | 1111  | 55    | 011   | ,     |       |         | 60    | - 1 - |                |                |              |            |
| 281        | TCC   | CTG           | GCG   | СТС   | СТС   | CAG   |       | CTG   | CAG   | GGC   | AAC     |       | CTG   | GCC            | GTC            | TAC          | 1140       |
| 282        | Trn   | T.011         | Δla   | Leu   | Leu   | Gln   | Val   | Leu   | Gln   | Gly   | Asn     | Val   | Leu   | Ala            | Val            | Tyr          |            |
| 283        | 65  | шси           |       |       |       | 70    |       |       |       | -     | 75      |       |       |                |                | 80           |            |
| 285        | CTG   | CTC           | TGC   | CTG   | GCA   | CTC   | TGC   | GAG   | CTG   | CTG   | TAC     | ACA   | GGC   | ACG            | CTG            | CCA -        | 1188       |
| 286        | Leu   | Leu           | Cvs   | Leu   | Ala   | Leu   | Cys   | Glu   | Leu   | Leu   | Tyr     | Thr   | Gly   | $\mathtt{Thr}$ | Leu            | Pro          |            |
| 287        |   |               |       |       | 85    |       |       |       |       | 90    |         |       |       |                | 95             |              |            |
| 289        | CTC   | TGG           | GTC   | ATC   | TAT   | ATC   | CGC   | AAC   | CAG   | CAC   | CGC     | TGG   | ACC   | CTA            | GGC            | CTG          | 1236       |
| 290        | Leu   | Trp           | Val   | Ile   | Tyr   | Ile   | Arg   | Asn   | Gln   | His   | Arg     | Trp   | Thr   | Leu            | Gly            | Leu          |            |
| 291        |   |               |       | 100   |       |       |       |       | 105   |       |         |       |       | 110            |                |              |            |
| 293        | CTG   | GCC           | TGC   | AAG   | GTG   | ACC   | GCC   | TAC   | ATC   | TTC   | TTC     | TGC   | AAC   | ATC            | TAC            | GTC          | 1284       |
| 294        | Leu   | Ala           | Cys   | Lys   | Val   | Thr   | Ala   | Tyr   | Ile   | Phe   | Phe     | Cys   | Asn   | Ile            | $\mathtt{Tyr}$ | Val          |            |
| 295        |   |               | 115   |       |       |       |       | 120   |       |       |         |       | 125   |                |                |              |            |
| 297        | AGC   | ATC           | CTC   | TTC   | CTG   | TGC   | TGC   | ATC   | TCC   | TGC   | GAC     | CGC   | TTC   | GTG            | GCC            | GTG          | 1332       |
| 298        | Ser   | Ile           | Leu   | Phe   | Leu   | Cys   | Cys   | Ile   | Ser   | Cys   | Asp     | Arg   | Phe   | Val            | Ala            | Val          |            |
| 299        |   | 130           |       |       |       |       | 135   |       |       |       |         | 140   |       |                |                |              | 1 2 0 0    |
| 301        | GTG   | TAC           | GCG   | CTG   | GAG   | AGT   | CGG   | GGC   | CGC   | CGC   | CGC     | CGG   | AGG   | ACC            | GCC            | ATC          | 1380       |
| 302        | Val   | Tyr           | Ala   | Leu   | Glu   |       | Arg   | Gly   | Arg   | Arg   |         |       | Arg   | Thr            | Ala            | TTE          |            |
| 303        | 145   |               |       |       |       | 150   |       |       |       |       | 155     |       |       | a. ~           | m > C          | 160          | 1 4 2 0    |
| 305        | CTC   | ATC           | TCC   | GCC   | TGC   | ATC   | TTC   | ATC   | CTC   | GTC   | GGG     | ATC   | GTT   | CAC            | TAC            | Des          | 1428       |
| 306        | Leu   | Ile           | Ser   | Ala   | Cys   | Ile   | Phe   | Ile   | Leu   | Va1   | GLy     | шe    | vaí   | HlS            | Tyr            | PLO.         |            |





## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/836,470

DATE: 11/20/2001 TIME: 19:11:35

Input Set : A:\836470.txt

Output Set: N:\CRF3\11202001\1836470.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]